

# 1 THE CARDIOVASCULAR SYSTEM



The major regions of the cardiovascular system, the heart and blood vessels, play a vital role in human physiology. The major function of the cardiovascular system is transportation. It takes blood to the various cells of the body, carries oxygen, glucose, amino acids, antibodies, and wastes, and carries carbon dioxide to and from body cells. It transports blood to the contracting heart.

The anatomy and location of the heart and blood vessels and the important subdivisions of cardiovascular physiology (the chambers, cardiac cycle, myocardium, etc.) and regulation of blood pressure are the major topics of this chapter.

## THE HEART

### Anatomy of the Heart

Complete the following statements by inserting your answers in the correct blanks.

1. The heart is a cone-shaped muscular organ located within the \_\_\_\_\_.
2. The apex lies in the \_\_\_\_\_, and its base is at the level of the \_\_\_\_\_.
3. The coronary arteries that branch off the \_\_\_\_\_ carry oxygenated blood from the heart to the \_\_\_\_\_.
4. The coronary veins carry deoxygenated blood from the \_\_\_\_\_ to the \_\_\_\_\_.
5. The \_\_\_\_\_ is the part of the heart that receives blood from the \_\_\_\_\_.
6. The \_\_\_\_\_ is the part of the heart that receives blood from the \_\_\_\_\_.
7. The \_\_\_\_\_ is the part of the heart that receives blood from the \_\_\_\_\_.
8. The \_\_\_\_\_ is the part of the heart that receives blood from the \_\_\_\_\_.
9. The \_\_\_\_\_ is the part of the heart that receives blood from the \_\_\_\_\_.
10. The \_\_\_\_\_ is the part of the heart that receives blood from the \_\_\_\_\_.

Figure 15-1 is an anterior view of the heart. Label each numbered structure and state its name in the corresponding anatomical position blank.

- |           |           |           |
|-----------|-----------|-----------|
| 1. _____  | 2. _____  | 3. _____  |
| 4. _____  | 5. _____  | 6. _____  |
| 7. _____  | 8. _____  | 9. _____  |
| 10. _____ | 11. _____ | 12. _____ |
| 13. _____ | 14. _____ | 15. _____ |

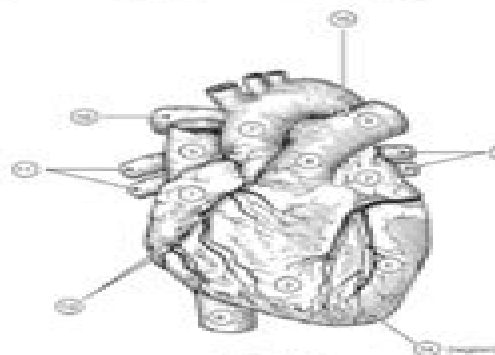


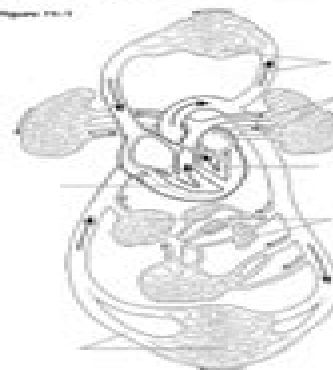
Figure 15-1

The heart is called a double pump because it works two chambers. (a) Show the flow of blood through the pulmonary and systemic circulation by circling the correct routes in the spaces below. (b) Label regions supplying the heart blood flow and oxygen transport. (c) Label the major regions of the circulation shown in Figure 15-1 by labeling them using the key above (a-f).

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_

Show the right atrium through the ventricular valve to the \_\_\_\_\_, through the \_\_\_\_\_, valve to the pulmonary trunk to the right and pulmonary trunk to the \_\_\_\_\_, to the right and left \_\_\_\_\_, to the \_\_\_\_\_, of the heart through the \_\_\_\_\_, valve to the \_\_\_\_\_, through the \_\_\_\_\_, ventricular valve to the \_\_\_\_\_, to the \_\_\_\_\_, of the heart to the \_\_\_\_\_, to the pulmonary trunk to the \_\_\_\_\_, and \_\_\_\_\_, which return to the right atrium of the heart.

Figure 15-2



### Key Abbreviations

- a. Atrioventricular (AV) valve
- b. Atrioventricular (AV) valve
- c. Atrioventricular (AV) valve
- d. Atrioventricular (AV) valve
- e. Atrioventricular (AV) valve
- f. Atrioventricular (AV) valve

Figure 15-3 is a schematic drawing of the microscopic structure of cardiac muscle. Label different colors, circles the corresponding structures of the diagram based below, and the corresponding structures in the heart.

- |                            |               |
|----------------------------|---------------|
| 1. Myofibrils (sarcomeres) | 2. Myofibrils |
| 3. Intercalated discs      | 4. Myofibrils |



Figure 15-3

The words of one complete heartbeat are related to as the cardiac cycle. Complete the following statements that describe these events. State your answers in the correct blanks.

1. The contraction of the ventricles is referred to as \_\_\_\_\_, and the period of ventricular relaxation is called \_\_\_\_\_.
2. The \_\_\_\_\_ is the period of time during which the ventricles are \_\_\_\_\_.
3. The first heart sound is a result of closure of the \_\_\_\_\_ valves. The second heart sound is caused by closure of the \_\_\_\_\_ valves. The third heart sound (S3) is caused by closure of the \_\_\_\_\_ valves.
4. The closure of the heart valves is caused by the \_\_\_\_\_ of the \_\_\_\_\_.
5. The closure of the heart valves is caused by the \_\_\_\_\_ of the \_\_\_\_\_.
6. The closure of the heart valves is caused by the \_\_\_\_\_ of the \_\_\_\_\_.
7. \_\_\_\_\_
8. \_\_\_\_\_

Figure 15-4 is a diagram of the internal structure of the heart. Label these areas to indicate the direction of blood flow through the heart and great vessels.

1. Label the heart chambers and the vessels transporting oxygenated blood flow and deoxygenated blood.
2. Label the heart chambers and the vessels transporting oxygenated blood flow and deoxygenated blood.
3. Label the heart chambers and the vessels transporting oxygenated blood flow and deoxygenated blood.

Superior and inferior vena cava \_\_\_\_\_, pulmonary trunk \_\_\_\_\_, right and left \_\_\_\_\_, right and left \_\_\_\_\_, right and left \_\_\_\_\_.

Figure 15-4



Figure 15-5



# Cardiovascular Crosspuzzle Answer Key

**Yan Bai**



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